

MONTHLY STATUS REVIEW

EOS ICE, CLOUD & LAND ELEVATION SATELLITE (ICESat) PROJECT

Project Manager:

Joseph Dezio

Project Scientist:

Dr. J. Zwally

Deputy Project Manager:

Gregory Smith

DPM/Resources:

Linda Greenslade

Spacecraft Contractor:

Ball

Instrument Development:

Dr. J. Abshire/924

Ground System Development:

ESDIS/423

Launch Vehicle Manager:

Tom Jones

PROJECT MANAGER'S ASSESSMENT

ICESat PROJECT

- OUR MEETING WITH DR. ASRAR ON NOVEMBER 19TH RESULTED IN A CODE Y PROMISE TO RESTORE \$6M OF THE \$15M FY 99 BUDGET CUT. \$4M WOULD BE RESTORED BY FEBRUARY 99 (TO PROCURE SPACECRAFT CONTROL CENTER AND FOT) AND ANOTHER \$2M WOULD BE RESTORED BY JUNE 99 (TO INITIATE LAUNCH VEHICLE CONTRACT) SO THAT ICESat CAN MAINTAIN ITS 7/01 LRD. THE BALANCE OF THE \$15M FY99 CUT WOULD BE RESTORED IN FY00.
 - THE PROJECT WILL CONTINUE TO WORK TO THE 7/01 LRD ON THE ASSUMPTION THAT THE RESTORED FUNDS WILL BE PROVIDED AS SCHEDULED.

ICESat PROJECT SUMMARY STATUS AS OF: 11/30/98

S/C BUS SEP OCT NO PROGRAM MANG. SUBCONTRACTS SYS. ENGINEERING SUBSYSTEMS S/C I&T OBSERV. I&T	SEP OCT NOV Y LAUNCH VEHICLE RRRS(CONTROL CONTROL SEP OCT NOV RR R R S(CONTROL CONTROL SEP OCT NOV RR R R S(CONTROL CON	RESOURCES SEP OCT NOV CHEDULE YY WEIGHT DD POWER DD ATA RATE DD TARATE
<u>INSTRUMENT</u>	SCIENCE/OPERATIONS	BUSINESS
SEP OCT NOV	SEP OCT NOV	SEP OCT NOV
GLAS Y	GLAS Y R&D BU	JDGET R R Y
	PROCURE	EMENT
LEGEND	WORK F	FORCE
<u>LEGEND</u>	TI	RAVEL
GOOD SHAPE	SUMMARY ASSESSMENT	
MINOR PROBLEM	TECHNICAL COST SCHEDULE OVERALI	L
R MAJOR PROBLEM	_ Y Y	

Undefinitized Contract Actions UCA's By ICESat - November 1998

NONE

"LAUNCH VEHICLE"

ICESat PROJECT		STATUS	AS UF:	11/30/98
PROBLEM/ISSUES	PROGRAMMATIC IMPACT	ACTION	DA	TE
			ESTAB.	COMPL.
R KSC SELVS II contract does not provide the ICESat vehicle requirement.	Vehicle selection delays will slow GLAS instrument develop- ment and will result in a cost impact to bus "fixed-price" contract.	 Explore other L/V options. GSFC will work with KSC to provide the ICESat vehicle. 	07/98	10/98 07/99 EST.

CURRENT STATUS

- STAAC access to space package together with pro and con summary charts were sent to K.P. on August 14 and to KSC on November 23rd for review and comment.
- Project has directed Ball to stay with the Athena II baseline until further notice.
- Headquarters Manifest Meeting started to show ICESat on a Delta 7320; email sent to Asrar, Luther, Townsend, etc., clarifying that ICESat has not outgrown either the Taurus XL or Athena II vehicle.
- 10/26/98 e-mail from HQ (Karen Poniatowski) continues to show intent to manifest ICESat on a Delta with a possible NRL payload and acknowledges the budget challenge.
- Now that the SELVS II contract SEB is completed, KSC and GSFC can begin discussions to work the ICESat vehicle acquisition.

"R&D BUDGET"

ICESat PROJECT

STA	ATUS	AS OF	F: 11	/30/98

PROBLEM/ISSUES	PROGRAMMATIC IMPACT	ACTION	DA	TE
			ESTAB.	COMPL.
Y Significant FY99 Budget reduction: - UPN 227 Devel. \$15.0M - UPN 229 Science \$ 1.5M	 Estimated LRD slip from 07/01 to 01/02 i.e., 6 months Overall cost increase to ICESat Program of \$12M 	Convince NASA Management to limit FY99 Development reduction to \$9M which holds the LRD of 07/01	10/98	11/98
- UPN 428 EOSDIS <u>\$ 4.9M</u> Cut Total: \$21.4M		• HQ Code Y will restore \$4M by February 99 and \$2M by June 99. The balance of the \$15M cut to be restored in FY00.	11/19/98	6/99 EST.

CURRENT STATUS

- Code Y meeting with Dr. Asrar resulted in a commitment to restore \$6M of the \$15M FY99 cut per the above schedule in order to allow ICESat to maintain the 7/01 LRD.
- This issue is on hold pending receipt of funds in February and June 99.

SIGNIFICANT PROGRESS

ICESat PROJECT

- NOVEMBER 19TH HQ MEETING WITH DR. ASRAR, CODE Y, WENT VERY WELL:
 - GSFC TO PROCEED WITH ICESat PROJECT IMPLEMENTATION
 TO THE 7/01 LRD PROVIDED THE FY99 BUDGET CUT IS
 RESTORED PER THE AGREED SCHEDULE
 - PROJECT IS TO MEET THE TOTAL MISSION COST CAP CHALLENGE OF \$277.9M
 - PI PROCESSING IS THE BASELINE
 - ATHENA II IS THE LAUNCH VEHICLE BASELINE

SIGNIFICANT PROGRESS

ICESat PROJECT

- NOVEMBER 19TH HQ MEETING WITH DR. ASRAR, CODE Y (CONT'D):
 - IMPLEMENT THE PROJECT AT GODDARD IN THE "TOTAL
 MISSION RESPONSIBILITY" MODE THROUGH THE ICESat
 PROJECT MANAGER WITHIN THE EOS-G PROGRAM MANAGE-MENT ORGANIZATION
 - TRANSFER ICESat UNIQUE FUNDS FROM EOSDIS AND SCIENCE
 INTO THE PROJECT UPN 227-6 FOR MANAGEMENT
 - COST SAVING MEASURES, SUCH AS A SEPARATE PROCURE-MENT OF THE SPACECRAFT CONTROL CENTER AND FLIGHT OPERATIONS TEAM ARE ASSUMED SO AS TO MEET THE COST CAP AGREEMENT

SIGNIFICANT PROGRESS

ICESat PROJECT

- THE ICESat MISSION DESIGN REVIEW (BEING CHAIRED BY THE SYSTEMS REVIEW OFFICE) IS BEING HELD AT BALL DECEMBER 8, 9, AND 10, 1998.
- INITIAL DELIVERY OF SPACECRAFT SIMULATOR, FOR GLAS, DELIVERED BY BALL.

GSFC PROGRAM MANAGEMENT COUNCIL MONTHLY STATUS REVIEW ACTION ITEM STATUS

ICESat/UPN 227-6

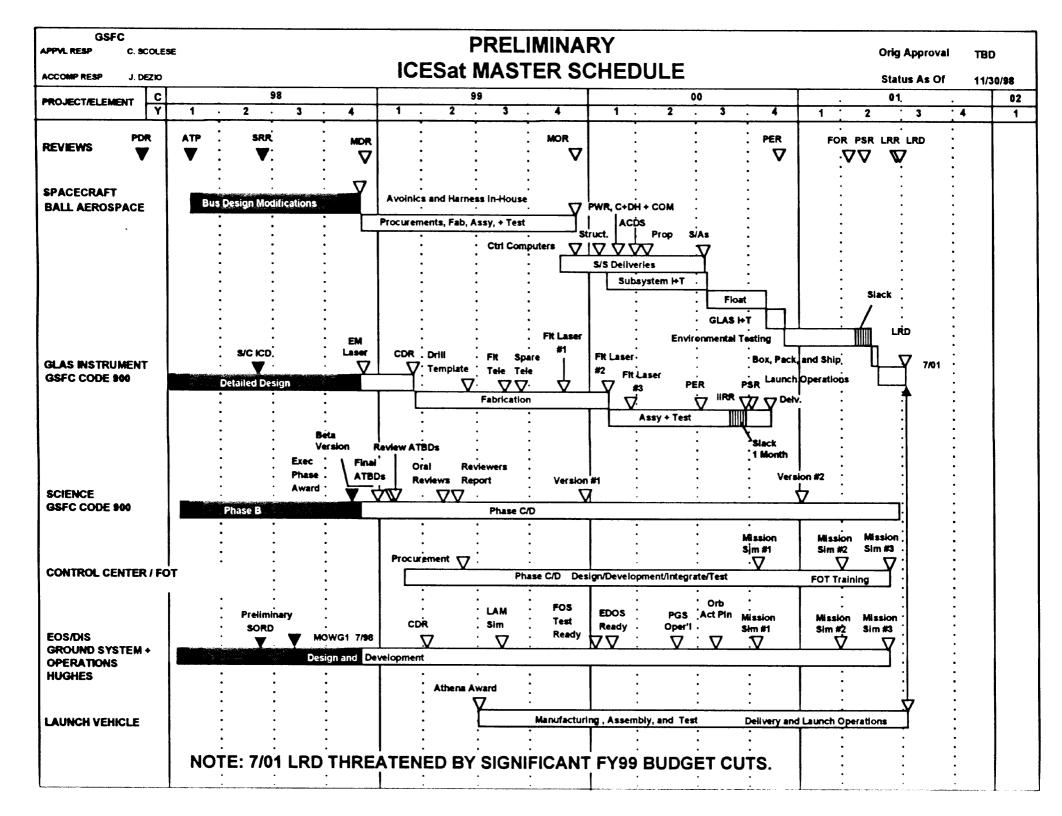
STATUS AS OF: 11/30/98

ACTION ITEM

DATE ASSIGNED

STATUS

NO ACTION ITEMS AT THIS TIME.



ROLLING WAVE

ICESat PROJECT

		FY 1998				FY 1999				
	EVENTS	4th Quarter		1st Quarter			2nd Quarter		3nd (Quarter
		SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	SCIENCE ØC/D CONTRACTS AWD		∇	10/30	11/30		1		<u> </u>	1
2	COMP FAB EM TELESCOPE	∇	9/30	V		(2)	1/15			!
3	COMP FAB EM SELECT MECHAN.			11/4						1
4	COMP FAB EM LASER			i I	V _{12/18}		!			;
5	MDR			i I	∇					1
6	GLAS CDR			i !			1	∇		1 1
7	ATBD						1		I	<u> </u>
	900 STAR TRACKER PROC *						1	Y		<u> </u>
1	A RFP RELEASED	∇	V	10/20			<u> </u> 		1	<u>:</u>
	B. OFFERS RECEIVED	7	7	11/2			!			
	C. TECHNICAL EVAL		∇	11/9			!			
	D. CONTRACT AWARD		∇	∇	(3)		!		∇	1
2	LASER REFERENCE SYSTEM *						1		<u>*</u>	
	A. RFP RELEASED	∇	V	10/21		1	1			1
	B. OFFERS RECEIVED		∇	11/12			1			!
	C. TECHNICAL EVAL		\square		1/19		!	1	J	1
	D. CONTRACT AWARD		\setminus		2/ 12/04			!		1
3	900 GYRO PROCUREMENT			1			!		J	i !
	A LETTER CONTRACT ISSUED					12/18			 	;
	B. CONTRACT DEFINITIZATION	4	5/	E		6 /	11/18			<u> </u>

SCHEDULE SLACK OVERVIEW

(NOTE: UNDER REVIEW AS A RESULT OF FY99 BUDGET CUT)

ICESat PROJECT STATUS AS OF: 11/30/98

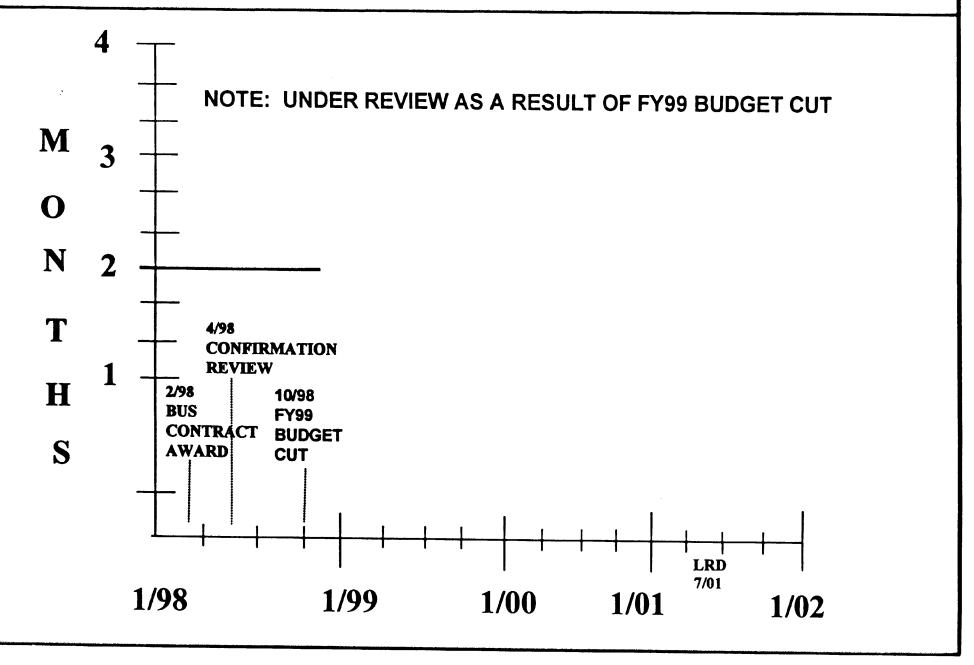
	SOURCE	CONTRACT/ DELIVERY DATE	CURRENT EST.	SLACK
GLAS INSTRUMENT	CODE 924	11/00	10/00	+1 MO. TO BUS INTEGRATION
S/C H/W SUBSYSTEMS INTEGRA. COMPLETE	BALL	11/00	7/00	+4 MO. TO INSTRUMENT I&T
OBSERVATORY (SEE NOTES 1&2)	BALL	7/01	5/01	+2 MO. TO 7/01 LRD

NOTES: (1) 5-DAY WORK WEEK IS BASELINED AT BALL, WEEKENDS AND SECOND SHIFT ARE NOT CONSIDERED AT THIS TIME.

(2) LAUNCH CAMPAIGN SPANS ABOUT 60 CALENDAR DAYS BUT HAVE ONLY 41 WORK DAYS OF ACTUAL ACTIVITY PLANNED.

SCHEDULE SLACK HISTORY

ICESat PROJECT



ACRONYMS

ICESat PROJECT STATUS AS OF: 10/30/98

ASSY ASSEMBLY

ATBD ALGORITHM THEORETICAL BASIS DOCUMENT

AWD AWARD

BALL AEROSPACE AND TECHNOLOGIES CORP.

BB BREADBOARD

CDR CRITICAL DESIGN REVIEW

CDRL CONTRACT DELIVERABLE REQUIREMENTS LIST

CMPL COMPLETE

CO CHECKOUT

DEL DELIVERY

DOC'N DOCUMENTATION

EOL END-OF-LIFE

ELV EXPENDABLE LAUNCH VEHICLE

EM ENGINEERING MODEL

ESDIS EARTH SCIENCE DATA & INFORMATION SYSTEM

ESSPO EARTH SCIENCE SYSTEMS PROGRAM OFFICE

EXEC EXECUTION

FAB FABRICATION

FCA FULL COST ACCOUNTING

FRR FLIGHT READINESS REVIEW

GLAS GEOSCIENCE LASER ALTIMETER SYSTEM

ACRONYMS (CONT'D)

ICESat PROJECT

STATUS AS OF: 10/30/98

1 & T INTEGRATION AND TEST

ICE. CLOUD & LAND ELEVATION SATELLITE

IMDC INTEGRATED MISSION DESIGN CENTER

IR INDEPENDENT REVIEW

KSC KENNEDY SPACE CENTER

Larc Langley Research Centerl

MLV LOCKHEED-MARTIN LAUNCH VEHICLE

LRD LAUNCH READINESS DATE

MDR MISSION DESIGN REVIEW

MGR MANAGER

MOR MISSION OPERATIONS REVIEW

MOWG MISSION OPERATIONS WORKING GROUP

MSI & T MISSION SYSTEM I & T

NOA NEW OBLIGATION AUTHORITY

OLS ORBITAL LAUNCH SERVICES

ORR OPERATIONAL READINESS REVIEW

PAF PAYLOAD ATTACH FITTING

PDR PRELIMINARY DESIGN REVIEW

PER PRE-ENVIRONMENTAL REVIEW

PFM PROTOFLIGHT MODEL

PMT PHOTO MULTIPLIER TUBE

ACRONYMS (CONT'D)

ICESat PROJECT

STATUS AS OF: 10/30/98

POP

PROGRAM OPERATING PLAN

PSR

PRE-SHIP REVIEW

REL

RELEASE

RFO

REQUEST FOR OFFER

RFP

REQUEST FOR PROPOSAL

ROB

REASSIGNMENT OPPORTUNITY BULLETIN

RQMTS

REQUIREMENTS

RSD

RAPID SPACECRAFT DEVELOPMENT

SAR

SYSTEM ARCHITECTURE REVIEW

S/C

SPACECRAFT

SCF

SCIENCE COMPUTING FACILITY

SCI

SCIENCE

SRS

STELLAR REFERENCE SYSTEM

SEL

SELECTION

SELV

SMALL ELV

SOW

STATEMENT OF WORK

SRR

SYSTEM REQUIREMENTS REVIEW

S/S

SUBSYSTEM

STAAC

SPACE TECHNOLOGY AND ADVANCED CONCEPTS

ACRONYMS (CONT'D)

ICESat PROJECT

STATUS AS OF: 10/30/98

SUBSYS

SUBSYSTEM

SYS

SYSTEM

UPN

UNIQUE PROJECT NUMBER

V

VERISON